

What is claimed is:

1 1. A method for setting a print location for printing by a printer, comprising the steps of:
2 determining whether a print location setting command for setting a print location for
3 printing by the printer is input;
4 outputting a print location setting menu screen for setting the print location for printing
5 by the printer when the print location setting command is input;
6 inputting print location information for setting the print location for printing by the
7 printer for entry in the print location setting menu screen; and
8 storing the input print location information entered in the print location setting menu
9 screen in a memory.

1 2. The method of claim 1, further comprised of the print location setting menu screen
2 comprising an input window for inputting at least coordinate information about a starting point
3 and an end point of the print location for setting the print location for printing by the printer.

1 3. The method of claim 2, further comprised of the print location setting menu screen
2 further comprising a cursor input window for setting the print location information to default
3 values.

1 4. The method of claim 3, further comprised of the print location setting menu screen

2 being programmed such that edge boundary screen information for a printing medium and print
3 boundary screen information for a print location area for printing on the printing medium are
4 displayed together on the print location setting menu screen, with the print boundary screen
5 information being changed according to the input print location information.

1 5. The method of claim 4, further comprised of the print location setting menu screen
2 being programmed such that the print boundary screen information is respectively changed in X-
3 axis and Y-axis directions by using a print location adjustment cursor.

1 6. The method of claim 4, further comprised of the print location setting menu screen
2 further comprising a cursor input window for setting the print location information to default
3 values.

1 7. The method of claim 1, further comprised of the print location setting menu screen
2 being programmed such that edge boundary screen information for a printing medium and print
3 boundary screen information for a print location area for printing on the printing medium are
4 displayed together on the print location setting menu screen, with the print boundary screen
5 information being changed according to the input print location information.

1 8. The method of claim 7, further comprised of the print location setting menu screen
2 being programmed such that the print boundary screen information is respectively changed in X-

axis and Y-axis directions by using a print location adjustment cursor.

9. A method of claim 1, further comprising the step of:

adjusting the print location for printing by the printer, comprising the steps of:

receiving the print location information about the print location for printing on a printing medium by the printer and margin information about margins for printing on the printing medium from a computer;

determining the print location for printing on the printing medium using the print location information and the margin information; and

controlling the position of a printer head for printing on the printing medium according to the print location determined in the step for determining the print location.

10. The method of claim 9, further comprised of the step for determining the print location comprising the steps of:

determining an X-axis lower limit X_s by adding a left margin value M_l contained in the margin information to an X-axis minimum value X_{min} contained in the print location information, and determining an X-axis upper limit X_e by subtracting a right margin value M_r contained in the margin information from an X-axis maximum value X_{max} contained in the print location information;

determining a Y-axis lower limit Y_s by adding a top margin value M_t contained in the margin information to a Y-axis minimum value Y_{min} contained in the print location information,

10 and determining a Y-axis upper limit Y_e by subtracting a bottom margin value M_b contained in
11 the margin information from an Y-axis maximum value Y_{max} contained in the print location
12 information;

13 comparing the X-axis lower limit X_s with the X-axis upper limit X_e and comparing the
14 Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

15 selectively changing the margins respectively according to a predetermined rule when any
16 of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis
17 lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ; and

18 determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the respective X-
19 axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the X-axis lower limit
20 X_s is less than the X-axis upper limit X_e and when the Y-axis lower limit Y_s is less the Y-axis
21 upper limit Y_e , and when the X-axis lower limit X_s is greater than or equal to the X-axis upper
22 limit X_e , determining an X-axis coordinate value X_{st} of the print starting point by adding the X-
23 axis minimum value X_{min} to a changed left margin value M_l' determined in the selectively
24 changing the margins step, and when the Y-axis lower limit Y_s is greater than or equal to the Y-
25 axis upper limit Y_e determining a Y-axis coordinate value Y_{st} of the print starting point by
26 adding the Y-axis minimum value Y_{min} to a changed top margin value M_t' determined in the
27 selectively changing the margins step, respectively.

1 11. The method of claim 10, further comprised of when any of the X-axis lower limit X_s
2 is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than

or equal to the Y-axis upper limit Y_e , the margins are initialized to a zero position according to the predetermined rule.

12. A method of adjusting a print location for printing by a printer, comprising the steps of:

receiving print location information about a print location for printing on a printing medium by the printer and margin information about margins for printing on the printing medium from a computer;

determining the print location for printing on the printing medium using the print location information and the margin information; and

controlling the position of a printer head for printing on the printing medium according to the print location determined in the step for determining the print location.

13. The method of claim 12, further comprised of the step for determining the print location comprising the steps of:

determining an X-axis lower limit X_s by adding a left margin value M_l contained in the margin information to an X-axis minimum value X_{min} contained in the print location information, and determining an X-axis upper limit X_e by subtracting a right margin value M_r contained in the margin information from an X-axis maximum value X_{max} contained in the print location information;

determining a Y-axis lower limit Y_s by adding a top margin value M_t contained in the

margin information to a Y-axis minimum value Y_{min} contained in the print location information, and determining a Y-axis upper limit Y_e by subtracting a bottom margin value M_b contained in the margin information from an Y-axis maximum value Y_{max} contained in the print location information;

comparing the X-axis lower limit X_s with the X-axis upper limit X_e and comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

selectively changing the margins respectively according to a predetermined rule when any of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ; and

determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the X-axis lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis lower limit Y_s is less than the Y-axis upper limit Y_e , and when the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e , determining an X-axis coordinate value X_{st} of the print starting point by adding the X-axis minimum value X_{min} to a changed left margin value M_l' determined in the selectively changing the margins step, and when the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e determining a Y-axis coordinate value Y_{st} of the print starting point by adding the Y-axis minimum value Y_{min} to a changed top margin value M_t' determined in the selectively changing the margins step, respectively.

14. The method of claim 13, further comprised of when any of the X-axis lower limit X_s

is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e , the margins are initialized to a zero position according to the predetermined rule.

15. An apparatus for setting a print location for printing by a printer, comprising :
means for determining whether a print location setting command for setting a print location for printing by the printer is input;
means for outputting a print location setting menu screen for setting the print location for printing by the printer when the print location setting command is input;
means for inputting print location information for setting the print location for printing by the printer and for entering the input print location information in the print location setting menu screen; and
means for storing the input print location information entered in the print location setting menu screen.

16. The apparatus of claim 15, further comprised of the print location setting menu screen comprising an input window for inputting at least coordinate information about a starting point and an end point of the print location for setting the print location for printing by the printer.

17. The apparatus of claim 16, further comprised of the print location setting menu

2 screen further comprising a cursor input window for setting the print location information to
3 default values.

1 18. The apparatus of claim 17, further comprised of the print location setting menu
2 screen being programmed such that edge boundary screen information for a printing medium and
3 print boundary screen information for a print location area for printing on the printing medium
4 are displayed together on the print location setting menu screen, with the print boundary screen
5 information being changed according to the input print location information.

1 19. The apparatus of claim 18, further comprised of the print location setting menu
2 screen being programmed such that the print boundary screen information is respectively
3 changed in X-axis and Y-axis directions by using a print location adjustment cursor.

1 20. The apparatus of claim 15, further comprised of the print location setting menu
2 screen further comprising a cursor input window for setting the print location information to
3 default values.

1 21. The apparatus of claim 15, further comprised of the print location setting menu
2 screen being programmed such that edge boundary screen information for a printing medium and
3 print boundary screen information for a print location area for printing on the printing medium
4 are displayed together on the print location setting menu screen, with the print boundary screen

5 information being changed according to the input print location information.

1 22. The apparatus of claim 21, further comprised of the print location setting menu
2 screen being programmed such that the print boundary screen information is respectively
3 changed in X-axis and Y-axis directions by using a print location adjustment cursor.

1 23. An apparatus of claim 15, further comprising:
2 means for adjusting the print location for printing by the printer, the means for adjusting
3 comprising:

4 means for receiving the print location information about the print location for
5 printing on a printing medium by the printer and margin information about margins for
6 printing on the printing medium from a computer;

7 means for determining the print location for printing on the printing medium using
8 the print location information and the margin information; and

9 means for controlling the position of a printer head for printing on the printing
10 medium according to the print location determined by the means for determining the print
11 location.

1 24. The apparatus of claim 23, further comprised of the means for determining the print
2 location, comprising:

3 means for determining an X-axis lower limit X_s that adds a left margin value M_l

4 contained in the margin information to an X-axis minimum value X_{min} contained in the print
5 location information, and means for determining an X-axis upper limit X_e that subtracts a right
6 margin value M_r contained in the margin information from an X-axis maximum value X_{max}
7 contained in the print location information;

8 means for determining a Y-axis lower limit Y_s that adds a top margin value M_t contained
9 in the margin information to a Y-axis minimum value Y_{min} contained in the print location
10 information, and means for determining a Y-axis upper limit Y_e that subtracts a bottom margin
11 value M_b contained in the margin information from an Y-axis maximum value Y_{max} contained
12 in the print location information;

13 means for comparing the X-axis lower limit X_s with the X-axis upper limit X_e and means
14 for comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

15 means for selectively changing the margins respectively according to a predetermined
16 rule when any of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e
17 and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ; and

18 means for determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the
19 respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the X-axis
20 lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis lower limit Y_s is less
21 than the Y-axis upper limit Y_e , and when the X-axis lower limit X_s is greater than or equal to X-
22 axis upper limit X_e , means for determining an X-axis coordinate value X_{st} of the print starting
23 point that adds the X-axis minimum value X_{min} to a changed left margin value M_l' determined
24 by the means for selectively changing the margins, and when the Y-axis lower limit Y_s is greater

25 than or equal to the Y-axis upper limit Y_e , means for determining a Y-axis coordinate value Y_{st}
26 of the print starting point that adds the Y-axis minimum value Y_{min} to a changed top margin
27 value Mt' determined by the means for selectively changing the margins.

1 25. The apparatus of claim 24, further comprised of when any of the X-axis lower limit
2 X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater
3 than or equal to the Y-axis upper limit Y_e , means for initializing the margins to a zero position
4 according to the predetermined rule.

1 26. An apparatus for adjusting a print location for printing by a printer, comprising:
2 means for receiving print location information about a print location for printing on a
3 printing medium by the printer and margin information about margins for printing on a printing
4 medium from a computer;

5 means for determining the print location for printing on the printing medium using the
6 print location information and the margin information; and

7 means for controlling the position of a printer head for printing on the printing medium
8 according to the print location determined by the means for determining the print location.

1 27. The apparatus of claim 26, further comprised of the means for determining the print
2 location, comprising:

3 means for determining an X-axis lower limit X_s that adds a left margin value Ml

4 contained in the margin information to an X-axis minimum value X_{min} contained in the print
5 location information, and means for determining an X-axis upper limit X_e that subtracts a right
6 margin value M_r contained in the margin information from an X-axis maximum value X_{max}
7 contained in the print location information;

8 means for determining a Y-axis lower limit Y_s that adds a top margin value M_t contained
9 in the margin information to a Y-axis minimum value Y_{min} contained in the print location
10 information, and means for determining a Y-axis upper limit Y_e that subtracts a bottom margin
11 value M_b contained in the margin information from an Y-axis maximum value Y_{max} contained
12 in the print location information;

13 means for comparing the X-axis lower limit X_s with the X-axis upper limit X_e and means
14 for comparing the Y-axis upper limit Y_e with the Y-axis lower limit Y_s , respectively;

15 means for selectively changing the margins respectively according to a predetermined
16 rule when any of the X-axis lower limit X_s is greater than or equal to the X-axis upper limit X_e
17 and the Y-axis lower limit Y_s is greater than or equal to the Y-axis upper limit Y_e ; and

18 means for determining the X-axis lower limit X_s and the Y-axis lower limit Y_s as the
19 respective X-axis and Y-axis coordinate values of a print starting point X_{st} , Y_{st} when the X-axis
20 lower limit X_s is less than the X-axis upper limit X_e and when the Y-axis lower limit Y_s is less
21 than the Y-axis upper limit Y_e , and when the X-axis lower limit X_s is greater than or equal to the
22 X-axis upper limit X_e , means for determining an X-axis coordinate value X_{st} of the print starting
23 point that adds the X-axis minimum value X_{min} to a changed left margin value M_l' determined
24 by the means for selectively changing the margins, and when the Y-axis lower limit Y_s is greater

25 than or equal to the Y-axis upper limit Y_e , means for determining a Y-axis coordinate value Y_{st}
26 of the print starting point that adds the Y-axis minimum value Y_{min} to a changed top margin
27 value Mt' determined by the means for selectively changing the margins.

1 28. The apparatus of claim 27, further comprised of when any of the X-axis lower limit
2 X_s is greater than or equal to the X-axis upper limit X_e and the Y-axis lower limit Y_s is greater
3 than or equal to the Y-axis upper limit Y_e , means for initializing the margins to a zero position
4 according to the predetermined rule.